KENWOOD

AUDIO VIDEO SURROUND RECEIVER

VR-407 VR-406 VR-405 VR-414 KRF-V7030D KRF-V6030D KRF-V5030D KRF-V4530D

INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above. Model availability and features (functions) may differ depending on the country and sales area.

About the sampled remain control (RC-86668)...

Compared to standard remote controls, the remote control supplied with this receiver has several operation trackes. These modes enable the remote control to control other audio/video components, in order to effectively use the remote control it is important to read the operating instructions and obtain a proper understanding of the remote control and how to switch its operation modes (etc.).

Using the remote control without completely understanding its design and how to switch the operation modes may result in Incorrect operations.

Units are designed for operation as follows.

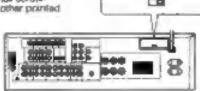
U.S.A. and Canada	AC	120 V	ersity
Atteirate	AC	240 V	CHIP
China and Russia	AC	220 V	only
1700an equatrica AC 115,135 / 996,94			

* AC voltage percettion

The AC voltage selector switch on the rear penel is set to the voltage that prevails in the area to which the unit is shaped. Before connecting the power cord to your AC culter, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

AC voltage selector switch

Move switch lever to metch your line voltage with a small scrawdriver or other pointed tool.



Higher

Our warranty does not cover damage caused by excessive the voltage due to improper setting of the AC voltage selector switch.

Safety precautions

WARNING:

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.







CALITION: TO REDUCE THE RISK OF BLECTRIC SHOCK, DO NOT REMOVE COVER FOR BACK). NO USER-SERVICEABLE PARTS IN-SIDE, REPER SERVICING TO QUALIFIED SERVICE PERSONNEL.



THE LIGHTNING FLASH WITH APPROVINGED SYMBOL, WITHIN ANEQUILATERAL TRANSLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT SENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRI-ANGLE IS INTENDED TO ALERT THE USER TO THE PRES-ENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOM-PANYING THE APPLIANCE.

Unpacking

Unpack the unit carefully and make sure that all accessories are put selds no they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is demaged or falls to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignce (the person or company receiving the unit) can life a claim against the center for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

Keep this manual handy for future reference.

Accessories

FM indoor anteres: (1)

AM loop antenna (1)





For VR-40T, VR-40E, IORF-Y7030D, and KRIF-Y6030D

Remote control unit (1) RC-R0809 Butteries (PB/AA) (2)





For VR-406, VR-414, KRF-V9088D, and KRF-V4080D

Remote control unit (1) RC-R0509 Bottories (R6/AA) (Z)





"AC plug adaptor (1)



*Use to adapt the plug on the power cord to the shape of the well outlet. *Accessory only for regions where use is necessary.)

Microcomputer mediunaties

Woperation is not possible or an erroneous display appears, even though all connections have been reads properly, result the tracticomputer referring to "in case of difficulty". —QID.

For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or reddifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction mensal. The user could lose the authority to operate this equipment if an unsufficiency of change or modification is made.

MOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the PCC Rules. These times are designed to provide responsible protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not lessabled and used in economics with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause transful interference to radio or television receptors, which can be determined by furthing the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following this equipment as the following massures.

- -- Regreet or relocate the receiving artieress.
- - Increase the separation between the equipment and receiver.
- Connect the equipment into an outlier on a circuit different from that to which the requirer is connected.
- Consult the dealer or an experienced radio / TV technicies for help.

For the U.S.A.

Note to CATV system installer:

This removing is provided to call the CATV system installer's attention to Article 820–40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



As an ENERGY STAR® Partner, Kerwood Corporation, has determined that the products meets the ENERGY STAR® guidelines for energy efficiency.

This product can save energy. Saving energy reduces air pollution and towers utility bills.

Maintenance of the unit

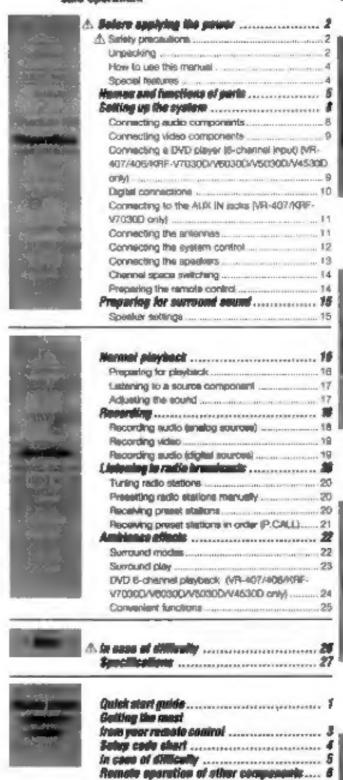
When the front panel or case becomes dirty, were with a soft, thy cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

in regard to contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the pleatic component.

Contents

Caution : Read the pages marked . carefully to ensure sale operation.



How to use this manual

The manual covers the VR-407, VR-406, VR-406, VR-414, KRF-V70300, KRF-V60000, KRF-V50300, and KRF-V45300. Items such as functions, number of golds, and remote control statels differ control between these models. To confirm the functions available on the model you have purchased, rater to the fallite below.

M-4-1	Remote		Terminal	
Model name	Control	Species out	VIDEO 3 jacim	Front input
VR-007 KRF-V78300	RC-Reset	1 systems (A, B)	Equipped	Equipped
VR-466 KRF-V80300	PC-Resos	2 systems (A, B)	Hot equipped	(that management
VP-406/414 KRF-V5000D/ V4530D	RC-Reson	1 ayaluus	Hot equipped	Het equipped

Prismanualis divided into lour sections, Proplantions, Operations, Other, and Remote Control.

Preparations

Shows you have to connect your audic end video components to the receiver and prepare the surround processor.

We've that to make setting up your system as easy se possible. However, since this repekter works with all of your audio and video components, connecting the system can be fairly complex.

Caerations

Shows you how to operate the various functions available from the receiver

Other

Shows you additional information such as "in case of difficulty" (troublestronting) and "Specifications".

Remote Conical (Separate basides) (VR-407/VR-486/KRF-V78390/KRF-VR0300 enly)

Includes the "Quark Start Guals," which shows you how to operate other components using the remote control, as well as a detailed explanation of all remote control operations. Once you have registered your components with the proper setup codes, you'll be able to operate both this receiver and your other AV components (TV, VCR, DVD player, LD player, CD player, etc.) using the remote control supplied with this receiver.

Memory back up function

Please note that the following items will be deleted from the unit's marrory if the power cord is disconnected from the AC outlet for approximately 3 days.

- · Prower mode.
- . Input salactor acttings.
- Device present.
- . Picture output
- Speeker ON/OFF
- . Volume level
- · BASS TREBLE, INPUT level
- + Subwooter ON/OFF
- * Dimmer level.
- + Monitor DN/DFF.

- * MO/TAPE settings
- 6CH/2CH input setting.
- Lieten mode setting.
- Speaker settings.
- Input mode setting.
- Midnight mode setting.
 Broadpast band.
- Frequency setting.
- · Preset Mabons.
- . Tuning mode.

Special features

True home theater sound

This receiver incorporates a wide variety of surround modes to bring you maumum enjoyment from your video software. Select a turround mode according to your equipment or the software you are going to play and enjoy!

—CSI.

Dudby Pro Logic & Dolby 3 Stereo

The surround system reproduces theater like surround sound from video software marked

The PRO LOGIC mode uses the bull-in adaptive matrix circuit to steer the Left. Center, Hight and Surround channel audio signals.

The 3 STEREO mode will redirect the Surround signal to the front left and right speakars when only the front and center speakars are used.

Dotby Digital (AC-3)

The IOLEY DIGITAL (AC-3) mode lets you arroy full digital surround from software processed in the Dolby Digital (AC-3) format. Dolby Digital (AC-3) provides up to 5.1 channels of independent digital audio for better sound quality and more powerful presence than conventional Dolby Surround.

DTS (VR-407/KRF-V76300 only)

DTS (Digital Theater System) is a 5,1 channel digital audio formal that provides two full spectrum channels and one low-frequency gubwoolar) channel for unprecedented clarity, optimum channel separation and a (wide) dynamic range.

in the DTS mode, tille 5.1 channel digital input from a DTS CD, LD or DVD dec (carrying trie "DTS" marking) can be played in Digital Surcount.

Important.

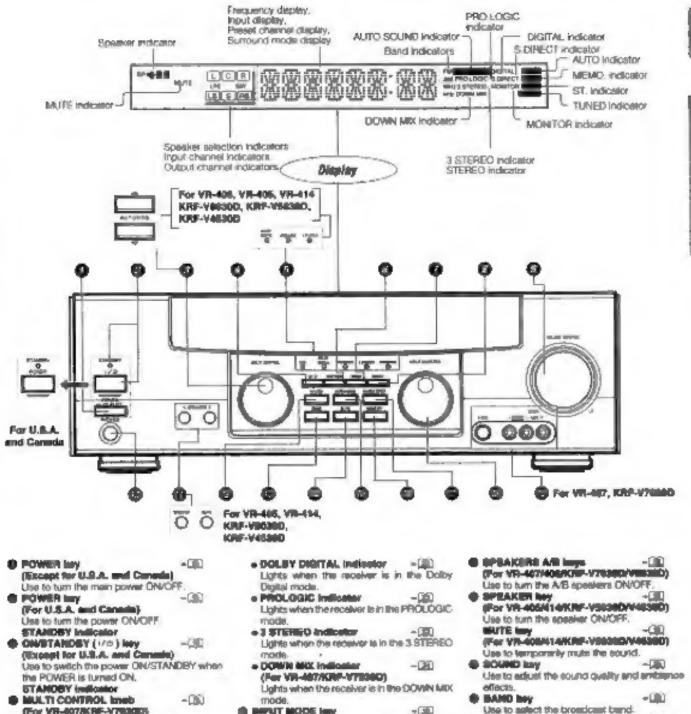
When a DTS due is played on a CD, LD or DVD player noise may be colput from the analog output, it is recommended that you connect the digital output of the player to the digital input of the Link.

DVD 8-channel input (VR-487/486/KRF-V7636D/V6636D/ V6638D anly)

If you own a DVO player equipped with 6-channel output, this receiver allows you to obtain the full surround sound impact of DVO source metarial featuring mutti-channel encoding. Since the source signals are digital and each channel is input independently, the resulting emblance is for superior to what can be achieved with conventional surround sound systems.

(Integral III (intrafted) remain mattel (III-407/406/4016-V78300/V0658D enly)

In addition to the basic receiver, the remote control supplied with the receiver can also operate almost all of your remote controllable audio and video components. Just follow the simple astup procedure to register the components you have connected.



(For VR-407/KRF-V79000) Used to make a variety of settings. MULTI CONTROL MINE For VR-106/406/41 4/KRF-Y000007/800007 ¥4530D) Used to make a variety of settings. B SET UP May -(16) Use to select the surround sound settings. Surround Indicators -(11) OTS Indicator

Lights when the receiver is in the DTS mode.

(For VR-487/KRF-V70300)

INPUT MODE key - (SE) Use to switch between the digital and straing -30-30

time to adjust the brightness of the display. Use to select the REC MODE. MONITOR May -CID

Use to monitor the source that is connected to the MONITOR lack **VOLUME CONTROL Invi** PHONES Juck

Use for headphone Issening

AUTO May 400 Use to select the auto tuning mode. LISTEN MODE My -(31) Use to select the listering mode. MEDICATY May - F 1 Use to store radio stations in the preset memory.

SOURCE DWSCT buy - (3 L) Use to pass the source metantal direct to the amplifier RAPUT SELECTOR lineals -00

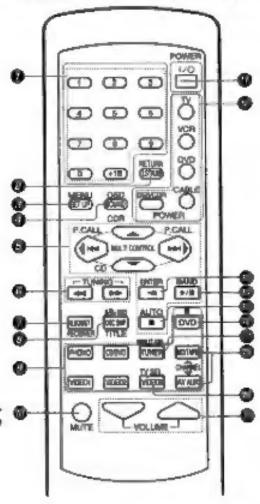
Use to select the input sources AUX IN 3 VIDEO/VIDEO/AUDIO L/RI -610

or VH-467/K/HF-V79460)

Stantily mode

While the standay indicator of the unit is lit, a small emount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to se the standby mode of the unit. While the unit is in the standby mode, it can be turned ON from the remote control unit.

Remote control unit (RC-R0609) (VR-407/406/KRF-V7030D/V6030D)



There are some cases in which keys (or lumbs) that have the same function on the receiver and on the remote control have different names, in the instruclions of this manual, if the names of corresponding lays (or letebs) on the repolver and remote control are differant, the marse of the remote control key. to indicated in parentheses.

Page references such as "RC-(III)" Indicate pages in the remote central operation menual (Separate booklet).

 Humaria hays. MC-CO Provide functions identical to those of the original remote control supplied with the component you are controlling.

LETTILM bay -(3) Use to select the listering mode. AC-E

RETURN by Use to operate other components.

@ BET UP key -0361 Use to select the surround sound settings. MENU Nev RC+CE Live to operate other components.

& GOUND My -OD Use to adjust the sound quality and ambience offects. **QGD** key MC-ES

Use to operate other components.

BULTI CONTROL lays Lised to make a variety of settings.

Use to operate other components. -(21) F.CALL < ID MAY if funer is eelected as the input nource, there

herys function on P.CALL keys: redber laye RC-LL If CD or MD is selected as the input source,

three keys function as saunch keys. TUNNS ---RC-III Use to operate the turner or selected componeni.

@ 8. 8008T key

Use to asiect the meximum adjustment aniting for the low fraquency range.

-30

PERCEIVED MAY

Use to return to the operation of the receiver.

DISC SKIP My If CD is selected as the input acuroe, this lay. functions as the multi-CD player disc step key. AND hop RC-CE

If TAPE is suitacted an the input source, this (A and S) of a coultre cessette deck.

+100 tmy

Use to select the disc number with the multi-CD player.

TITLE MAY RC-CZ Use to operate other components.

HAPLIT SELECTOR lays (DVD, PHOHO, CEVOVO, TUNER, MOTAPE, VIDEO1, VIDEOL, VIDEOL, AV AUXD Selects the inputs and sets the remote controi to operate the component registered at

the respective input. MUTE key -01 Use to temporarily mute the council.

POWER My Use to turn the receiver on and off.

POWER My (TY, YCR, DVD, DESICOR, AC-CO CABLE) Lisa to turn the other components on and off.

O CHITCH INV

Lise to openile other components.

4 kg

Il tape is selected as the input source, this key functions as the play key for eids B of the cassette (the side facing away from the front. of the duck).

B BAND hey Use to select the proeclosel band.

RC-(B) 0-100 febru if CD is selected as the input source, this key functions as the play/pound key. If MID is selected on the input source, this key

functions so the clay key.

-00 AUTO by Uan to select the auto funing mode.

FIC-CI If CD or MD is astected as the Input source. this key functions so the stop fully.

RC-(II) O III NOY Use to operate other components.

IMPUT SOL her NC-(II) Use to operate other components.

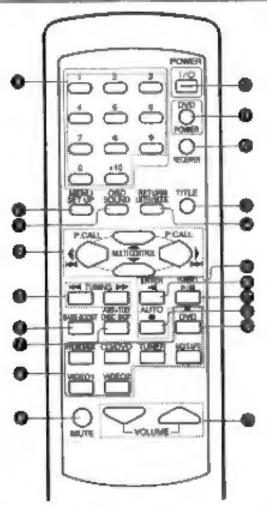
CHANNEL 6/9 hoys RC+(2) Use to select the channel.

TV SEL INT NC-DD Use to operate other components.

VOLUME Inyo Use to adjust the receiver volume.

-02

Remate control unit (RC-R0509) (VR-405/414/KRF-V50300/V45390)



Numeric https:

CD or MD is selected at the input source,
these keys function as numeric leys. If funer
is selected as the input source, these keys
are used to call up station princes.

◆ SET UP key —□□□ Use to select the surround sound settings. MEMU key

Use to operate other components.

SOLIND key
 —LISE
 —LISE

000 My

Use to operate other components.

MULTI CONTROL heye -30:

keys function as P.CALL keys.

If CD or MD is selected as the input source, these keys function as search keys.

BASS BOOST key
Lise to select the maximum adjustment setting for the low frequency range DESCRIPTION ...

If CD is satisfied as the input source, this key handlone as the multi-CD player disc slip lety. A/B key

If TAPE is epiecial as the input source, the (A and B) of a double cassette dack.

+100 lwy

Lies to select the disc number with the multi-CD player.

HIPUT SELECTOR large (DVD, PHONO)
 AUX, CD/DVD, TUNER, MO/TAPE,
 VIDEO1, WDEO2)
 Selects the inputs and sets the remote control to operate the component registered at
 the respective input.

Use to temporarily mule the sound.

POWER tay

Use to turn the receiver on and oil.

DVD hey
 Used to operate DVD player.
 For details, refer to the instruction manual of your DVD player.

RECEIVER twy

Use to return to the operation of the receiver.

TITLE key

Use to operate other components.

LISTEN MODE to purely —CS1
Use to select the listening mode.
RETURN bey
Use to operate other components.

 Component operation have RC-QQ Use these keys to operate other components with eyelem control connections to the receiver.

or heavy

If tape is selected as the input source, this key functions as the play key for side 6 of the cassatte the side facing every from the front of the clack).

erit hey

If CD is natically as the input source, this key functions as the play/pause key.

If MD is selected as the input source, this key functions as the play key.

m kney

If CD or MD is aniected as the input course, this key functions as the stop key

Use to operate other components.

♣ AUTO key —②D If tuner is selected as the input source, this key functions as the AUTO key.

or large

Use to operate other components.

◆ VOLUME hope -(2)
Use to adjust the receiver volume.

Make connections as shown below.

When connecting the related system components, be sure to sleo rater to the instruction manuals supplied with the components you are connecting.

components you are connecting. Do not connect the power cord to a wall outlet until all

connections are completed.

DTS allectotener planne

DTS Digital Surround ** is a discrete 5.1 channel digital audio formal available on CD, LD, and DVD software which consequently cannot be discoded and played back traide most CD, LD, or CVD players. For this reason, when DTS-encoded software is played back through the analog outputs of the CD, LD, or DVD other, excessive notice will be enhibted. To svoid possible damage to the audio system, proper precedence should later by the consumer if the analog outputs are connected directly to an amplification system. To enjoy DTS Digital Surround by system must be connected by the connected by the proper proceded by the proper proceded of the connected directly to an amplification system. To enjoy DTS Digital Surround by system must be connected to the digital output (S/P DIF, AES/EBU, or Tosturit) of the CO. LD or DVD player.

The only audio product modes incorporating the CTS Digital Surround decoder are the VR-407 and KRF VRX000.

WOEO 2/MONITOR Jacks (for VR-486/405/414/KRF-VB836D/V5836D/V4536D)

The receiver's VIDEO AMONITOR jecks can be used in two different ways. Make the appropriate setting for the component connected to the stock when the receiver is turned on.

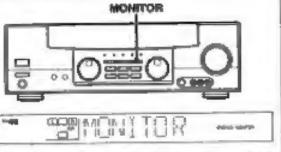
Use se o VIDEO 2 jack

You can connect a video deck or the life to these jecks and perform video playback and recording. The initial factory setting is: "VIDIO 2".

time as a SKONITOR jack

You can connect a cassette deck or the like to these justs and make use of the deck a monitoring function during recording. Alternately, you can connect a graphic equalizar to these justs to apply compensation to the music signal.

To use the **VIDEO 2/INCHITOR** jacks an **INCHITOR** jacks, hold down the **INCHITOR** key of the main unit for more two seconds so that the indication shown below appears.



- At the name time the setting is switched to "MONTOR," the audiomput source switches to tuner and the video input source switches to VIDEO
- To switch the setting back to "ADED 2," once again hold down the MOHETOR key for two seconds or more.

Notes

 Se sure to insert all connection cords securely. If their connections are imperied, the sound may not be produced or notes may interiore.

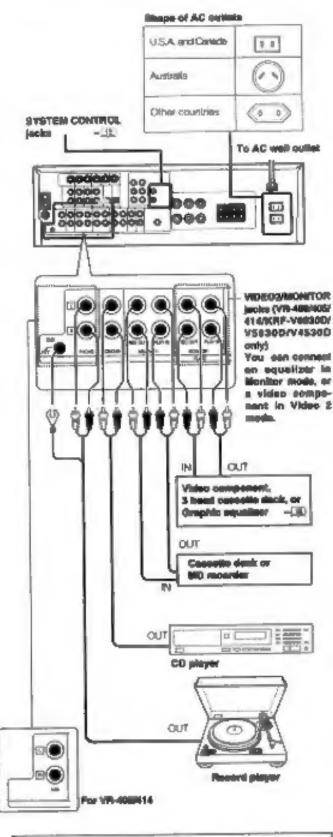
2. Be sure to remove the power cord from the AC cuttet before plugging or unplugging any connection cords. Plugging/unplugging committion cords introduct deconnecting the power cord can cause mailunations and may character the unit.

 Do not connect power cords from components whose power consumption a larger than what is indicated on the AC outlet at the rear of the unit.

Analog convocitors

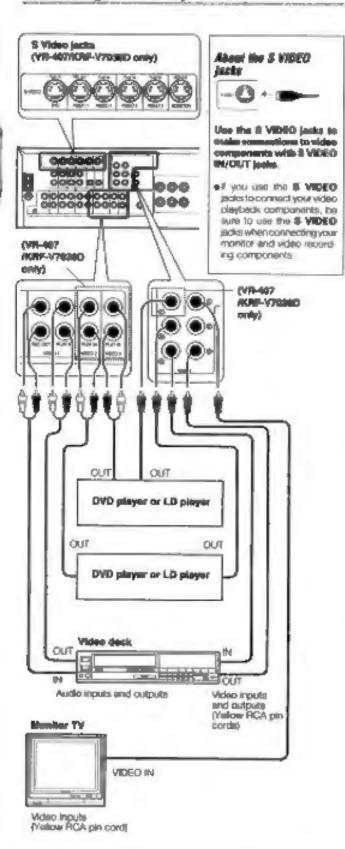
Audio connections are made using PICA pin cords. These cables transfer stereo audio signal in an "eretiog" form. This means the audio signal corresponds to the actual audio of two channels. These cables usually have 2 plags each end, one sed for the right channel and one white for the left channel. These cables are usually packaged with the source unit. Or the syndichte at your local stactorilios retailer.

Connecting audio components



When you convect the video component to the VIDEO 200001-TOR jacks, convect the video cord (yellow RCA pin cords) of the connected component to the VIDEO 2 IN jack (VR-spersol/414/ 1297-Y983002VS83003Y4630D only).

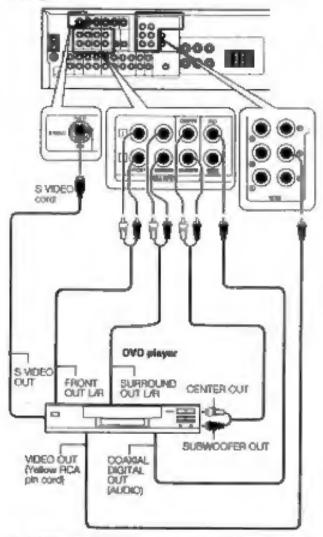
Connecting video components



A video component with digital nucle outputs about be conrected to the VIDEO2 or VIDEO3 (VVI-467/KNP-V74660 snly) jacks.

Connecting a DVD player (6-channel input) (VR-487/488/KRF-V78380/V88380/V88380/V48380 aniv)

If you have connected a CVO player to the receiver with digital connection, be sure to read the "Input mode settings" section on the following page carefully.



To matick the openium off, press the MI/TE key.

GAUTION (Except for U.S.A. and Conado)

Be sure to achieve followings. Or proper ventilation will be stocked causing damage or fire heavird.

- Install the VR-407/408/405/414/KRF-V7030D/v9030D/V5030D/ V4530D on the top of the system.
- Do not place any objects impairing heat radiation onto the top of unit.
- Laive a space around the unit from the largest outside dimension including projections equal or greater than, shown below.

Top panel: 50 cm.

Side panel 10 on

Back panel : 10 cm.

CAUTION (For U.S.A. and County)

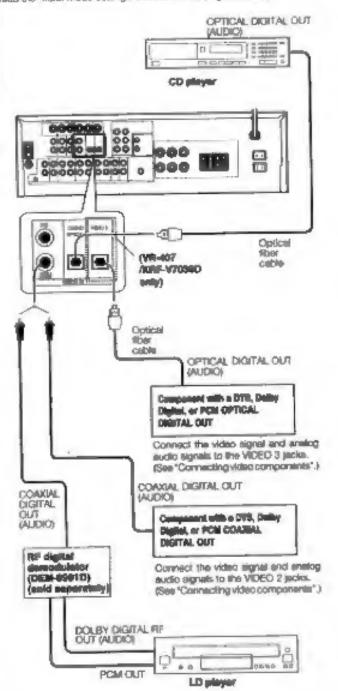
On sure to adhere followings. Or proper ventilation will be blocked clueling damage or fire hazard:

- Install the VR-407/408/405/414/KRF-V7030D/V9030D/V5030D/ V4530D on the top of the system.
- Do not place any objects impairing hast radiation onto the top of unit.

Digital connections

The digital in packs can accept DTS, Dolby Digital (AC-3), or PCM signals. Connect components capable of outputting DTS, Dolby Digital (AC-3), or standard PCM (CD) formal digital agrads.

If you have connected any digital components to the receiver, be sure to mad the "kipul mode settings" section on this page carefully.



To sensect in LD player with a BIOSTAL RF OLT, connect the LD player to the KENWOOD RF digital demodulator (DEM-6081D). Heat, connect the DIGITAL OUT jacks of the demodulator to the DIGITAL IN jacks of the receiver.

Connect the video signal and analog sedio signals to the VEEO 2 or VIDEO 3 (VR-407/KHr-47088D only) Jacks. (See "Connecting video components".)

input made settings

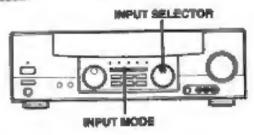
co. DVD. YIDEO3 and YIDEO3 (VR. 407.40PF V7030D only) inputs each include jacks for digital audio input and analog audio input. You must select beforehand which type of input is to be used for each connected component.

The initial factory setting is to use the digital audio signal for playback (CD, DVD, VIDEO2, VIDEO2).

To use the enalog audio input for playback ineteed (f), for example, you have connected a YCR to the VIDEO2 or VIDEO3 input, you must set the input mode for the corresponding input to the enalog mode.

After completing connections and furning on the receiver, follow the

steps below.



- Use the MP4T BELECTOR Invelors mixed CB, DVD, VIDBO2, or VIDBO3.
- @ Press the HIPUT MODE boy.

Each prope switches the setting an inferent

in UTS play made (VR-407/KRF-V78380 only)

- In D-AUTO (digital input, auto sound)

- D-MANUAL (digital Input, manual abundi

in DVD play made

- (i) D-AUTO (digital input, auto sound)

2) D-MANUAL (digital input, menual sound)

(5) BICH INPT (DVD BICH INDUS)

(i) ANALOG (analog input, manual sound)

in other mode than DTS or DVO play mode

TO D-AUTO (digital input, such sound)

D MANUAL (dighal input, manual sound)

AMALOS (analog input, menual accord)

District Invest-

Soluct this setting to play digital signals from a DVD, CD, or LD player.

Amideg Input:

Select this setting to play analog signals from a cassatte deck, VCR, or turnishin.

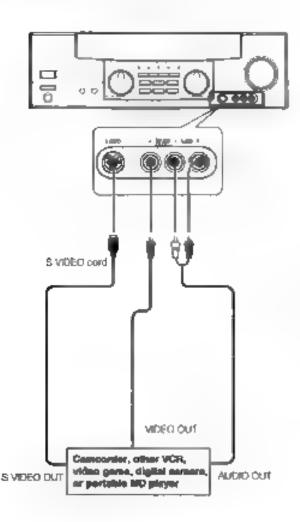
Auto sound:

In the suic sound mode (AUTO SCHAID Indicator lights), the receiver selects the laterating mode eutometically during playback to match the type of input again (Dolby Digital, PCM, DTS) and the speaker setting. The initial factory setting is auto sound on.

To keep the receiver set to the currently selected listening mode, use the IMPUT MODE key to select "C-MANNAL" (menual sound). However, even when this setting is selected, there may be cases in which the listening mode is selected eurometically to match a Doby Digital source signal depending on the combination of listening mode and source signal depending on the combination of listening mode and source signal.

Connecting to the AUX IN jacks (www.er/enfv78360 enly)

The AUX IN judes are consensed for connection of vicino complenents such as a carroorders and video games.



- To exist the source connected to the AUX 91 jacks, select ###
 AUX by using the INPUT EELECTOR lines. ~(2)
- When you connect the sudio source such as the MD player, you do not need to connect the video cable.
- When you cannot the unit and the company with the \$ VIDEO cord, you can get better picture quality.

Connecting the antennas

AM legg anteggs

The supplied loop antennate for use indoors, Place it as the as possible from the receiver, TV set, speaker contis and power conti, and adjust the direction for best reception.



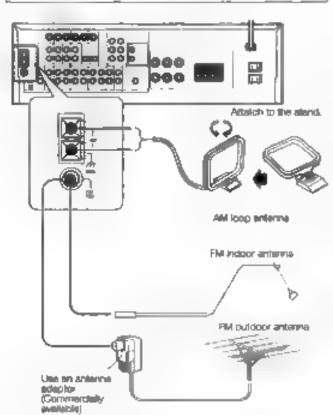
Fill indoor autouse

The supplied indoor entenne is for temporary use only. For stable agrid reported were commend using an outdoor entenne. Disconnect the indoor entenne when you connect one outdoors.

Fill outdoor antonne

I and the WNI cower cable connected to the HM sufficer untering into live yours and connect it to the PM TRO terminal.

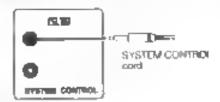




Connecting the system control

Connecting system powers senie after contracting a KENNICCO static wemperant system late you take advertings of convenient system control operations.

This will be competible only with the (SL-16) mode. The system control operation is not evaluable if the unit is commented in the (XS6), (XS), or (XR) commenter made.



EXAMPLE: [SL14] mode numberlions

The underlined portion represents the setting of the system control mode.



This unit closs not support the DCB #] mode.

In order to links adventings of the system control operations, the
components must be connected to the correct jacks. To use a CD
player it must be connected to the CD jacks. To use a cannette deck
to MD recorder) 4 must be connected to the MD/TAPE jacks. When
taking more than one CD player (etc.) only the one connected to the
apecified jacks may be connected for system control.

 Some CD players and caracite decks are not compatible with the \$5L (6) system control mode. Do not make system connections with

aguipment that is not [St. 16] competible.

Some MD players are not system control compatible. You cannot make system control connections to the kind of equipment.

Notes

- † [SL18] equipment cannot be combined with QFI, [CS], and [CSB] equipment for system operations, if your equipment consists of this kind of combination, please do not competitive system control cords. Even without system control cords, normal operations can be carried out without effecting performance.
- Do not connect wystern control conds to any components other than those specified by KENWOOD, it may cause a millianction and demagn your equipment.
- Be sure the system control pluge are inserted all the way in to the system control terminals.

Go not comment a system control conf to a casselle deak commented to the VIDEO2/8009/FOR (actu.

SYSTEM CONTROL OPERATIONS

Remote Control

Lets you uperate the unit with the system remote supplied with the receiver

Automotic Operation

When you start payback from a source component, the input mindor on this unit syntains to that component automatically.

Synchronized Recording

Lats you synchronize recording with me than of playback when recording from CD, MO or willing these

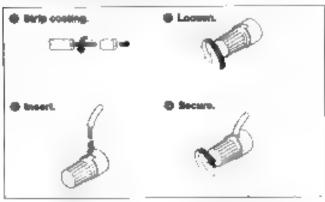
Registering salup codes for ICENWOOD audio sampanentis (VII-487/484/ICEN-V78308/V98380 mily)

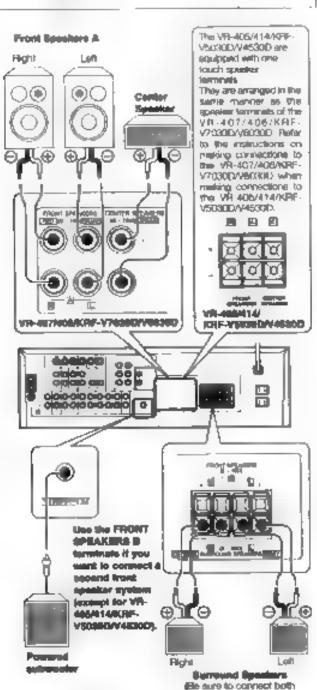
 Once you finish making the system commissions, be sure to register life appropriate setup code for each component
 RC-(3)

 If you own remote correctable KEN/WOOD audic components that are not competible with system control, registering the setup code in ables you to control those components using the remote control supplied with this unit (without connecting system control cords). To register actup codes for your remote controllable KEN/WOOD audic components, see "Registering estup codes for other components").

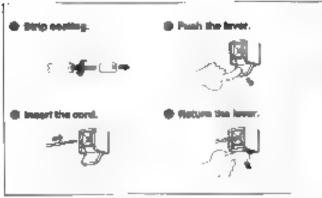
RC-(S)

Connecting the speakers





aurround apealvered



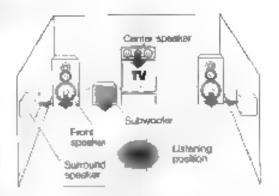


- . Negver short cardial the it and speaker cords.
- If the left and right spankers are connected myreaply or the speaker cords are connected with reversed polarity, the sound will be unrefural with ambiguous accusing imaging. Be sure to connect the speakers correctly.

Speaker (repedients)

After confirming the speaker impactance extinctions printed on the near parent of the receiver, connect apeakers with matching impedance relings theng speakers with a rated expedience other their that extend on the rear panel of the receiver could result in malfunctions or denings to the speakers or receiver.

Speaker placement



Frent specime: Place to the frontiefrendight of the Istering position Front specimes are required for all surround modes.

Center speaker: Place from and center. This speaker stabilizes the sound mage and helps recreate sound motion. Be sure to connect a center speaker when using the Doky 3 Starte mode.

Surround eposition. Place to the direct will and right, or slightly behind, the teturing position at even heights, approximately I meter above the ears of the learnings. These speakers montains sound motion and armoughers. Required for surround playback.

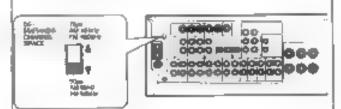
Bultwooter - Proproduces powerful deep begs sounds.

Applying the ideas surround system commits of all the speakers lighed above, if you don't have a confer speaker or a subwooter, you can divide those signals between the evaluable speakers in the speaker actings steps to obtain the best possible surround reproduction from the speakers you have available.

Channel appear projecting (Emegi for the MSA, Consts, UK, Escape, and Australia)

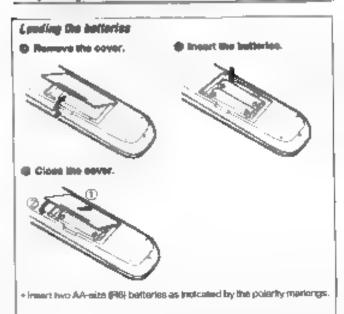
The space between racks channels has been set to the one that prevails in the time to which the system is enloped. However, if the current channel space setting close not match the setting in the area where the system is to be used, for instance when you move from area. I or area shown in the following table or vice versa, proper recapition of AAAFM broadcasts cannot be supected. In this case, change the channel space tening in accordance with your area by referring to the following liable.

Ann GHANNEL Specie Frequent		CHANNEL Space Frequency
1	USA, Canada and South American countries	FM 100 KHZ
2	Other countries	FM: 50 kHz AM: 9 kHz



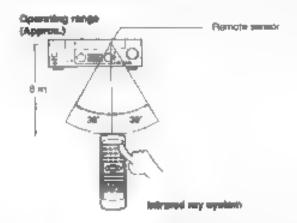
Move switch lever to mutch your area With a small scrawdiff/ite or other pointed loof

Preparing the remote control



Coormiles

When the STANDEN inclusion is it, the power fund ON which you press the POWER key on the remote control. When the power comes ON, press the key you want to operate.



 Vitron-presents more train one remain control key exponentially, crebbths lays expurely by leaving an interval of a second or more between leavs.

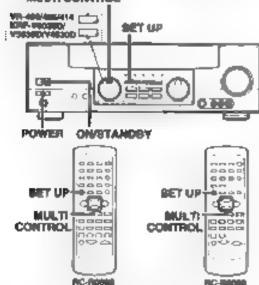
Nolma

- The supplied beginner may have anorter even than ordinary betteries the to use during operation checks.
- When the remote controllable distance gate shorter than before, replace both batteries with new order.
- Placing the remote service in direct surlight, or in direct light from a high insquarcey fluorescent limits thisy cause a meffurction.
 In each a case, change the location of the system installation to prevent mathematics.

Saeaker settines

To snable you to obtain opermum enjoyment from the receiver's listering. Prodet, make sum to complish the speaker settings (subworder, front, center, and surround appallers as described below

MULTI CONTROL



- Term on the power to this receiver by pressing POWER (and De/STANDEY) boy(s).
- Select a speaker system.
 - Press the SET UP key to make the extraooter setting indication (SUBW) appear.



- Vée the MULTI CONTROL to natural the appropriate automobile. and the same
 - (*) BUINN YES: A subwooler in connected to the receiver.
 (*) (**) (**) ** (**)
 - . When the setting "SUSW" NO" a selected, the front economic Buildy which are not by "Larger" and the procedure shape to shap .
- Prece the SET UP key to accept the setting.
- The front speakers setting indication (FRMT) appears.



- Use the MULTI CONTROL to select the appropriate front approfess selling.
 - (1) PRHT NML (normal): Average size front speciers are contracted to the receiver. · (2) PRINT LINE (Brigg): Large front apeaters are con-

nected to the receiver.

- B Press the UET UP hay in account the colling.
 - The center speaker setting indication (CNTR) appears.

CONTROL to religion appropriate contact pagainer patting.

If you unlocted "LING" so the front speakers setting.

- U: CNTR LRG (argus): Alongs center speaker is connected to Dat receiver

2 CATH NOT. Increase: An average plan center speaker is con-

nected to the receiver.

. DECEMBER MOS No center apeator is corrected to the

If you extended "NBS;" on the front appellors setting.

- 1) CNTH YES: A certer speaker is connected to the receiver.

- 127 CNTR NO: No center apealier is connected to the

FELLENSEL.

Press the BET UP toy to accept the entire.

- The surround apparent selving indication (SUPP) appears.
- @ Use the MULTI CONTROL to assess the appropriate curround according setting.

If you amended "LRQ" as the center epocher notting.

TI BURR LRG Strout: Large surround speakers are connected to the receiver.

21 BUPM NRCL Increasit: Average size surround appearers are connected to the receiver.

- (9 BURN NÓS No surround speakers are connected

In the recessor

If you associated other than "LPG" on the center spenius selling.

(1) SUMM YES: Surround speakers are connected to the re-CONTR

= (i) SUPPL NOTE No surround apparent are connected to the réipelyéir.

Proce the DET UP bity to account the antilog.

- The receiver anters the aparties volume level adjustment mode.
- In steps Wand W, indications appear only for the sulected charmets of the speakers that require educing,

Adjust the values levels for the speakers.

Sit in your normal listening position and false to the built bein. Adjust the VOLUME levels for the speakers until all appealers peem to be equally loud.

Use the MULTI CONTROL to saliged the volume when the test. lithin is being output from the epeater channel to be adjusted.

The charmel inclusion darks while the test fone is being output.



The test tone leager from the specimen for 2 accomic at a time in the lettouring acquirence:

Leb -- Coh -- Rob -- Rob -- Lis -- sher -- Lob

- If you change the volume level settings for the specifiers while faturing. to music, the settings referred to on this page are also changes.
- If the speaker nathing asknots are changed, the appealer level astlings. are reset.
- Press the BET SP toy.
 - The receiver enters the mode for inputting the distance to the **ADOMAGN**

Input the distance to the speakers.

d Measure the distance from the Scienting position to each of the needer's.

Jol down the distance to each of the speakers.

Carterion to from appearant.

food (restoral

Distance to center speaker:

feet (meters)

Eligiance to surround speakers:

test (maters)

S then the MULTI CONTROL to assect the distance to the front appealers.

The appearer indicator to be adjusted banks



 The allowable setting range = 1 to 30 feet (I.3 to 9.0 m), adjustable in 1 tool (0.3 m) increments

- & Press the SET UP boy.
- ◆ Report stope ◆ and ◆ in Input the distance for wath of the possibers.
- Salve is partylate when the input indication recomment.



Display when at speakers have been selected

 The upashers you selected appear on the display. Confirm that all. the speakers have been correctly selected.

ineal level sillustment (pasteg sources entr)

If the input level of an autility source algoriths too high, adjust the input mad.

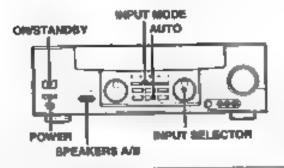
- in the the SCPUT SELECTOR back to select the power who's fraud level you want to adjust.
 - *You can store a separate your level for each input source. If the MIONITOR function is on, you can store an input level for when MONTOR is on independently of the input levels for the input NOT PORCE.
- Prace the BCURR lary servical times until the "BBUT" Indication
- On the the MULTI CONTROL to self-or the input inval.



- The edjustment mode is deplayed for approximently eight seconds.
- The imput level may be adjusted to any one of three settings: 0. -2, and -6 (The Initial seriong is 0.)
- Proor the SOURID hay to estart in the input Industries.

Preparing for playback

Some proparatory steps are needed before starting playback.



Selecting the Impai roods

If you have selected a component currected to the CO, DVD, VIDEOS, or WIDEOS (VN-407A/RE-V7030D only) make, make turn that the input mode setting 6 correct for the type of audio agent to be used -- (8)

Solocitor MO/TAPE

Select the source harte corresponding to the component connected to the MD/TAPE lecks. The mittel factory eating a "TAPE". To change the source name associated with the MD/TAPE jecks to "MD," follow the snapa balow.

- O Use the HIPUT SELECTOR track to select "MOTAPE".
- Hole deem the AUTO key for more than 2 seconds.
 - The source indication changes to "MD".
 - To return to the original indication, repeat the above procedure.
 - You also will need to change the name input to the remote control to PIC-LIL MO.

Enlacting the spentar system (except for VN-486/414,45%-VSB290/V45302)

Propo the SPEARSHIP A or B buy to extent the apositor system to he seed.

A ON

: Sound from the aparthers corrected to the SPEAKERS A berminals on the rear planet.

: Sound from the speakers corrected to the SPEAKERS B 9.00

luminate on the rear panel.

A+B ON : Sound from both the speakers connected to the SPEARERS

A and 3 terminals on the reer panel.

Asia OPF : No sound from the speakers. Use this setting when faturing with headphones for stereo count and virtual surround in all phybrick modes.

The indicator for the speakers you want to use should be th.



VIR. 407/406/ KRF-V7030DAV6030D The appealur indicator lights 44:

V9-405/414/ KRF-V60300/V4530ID

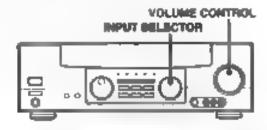
 Activating a surround mode or selecting "DVD/8ch" as the input source. causes apaykin system A to be selected automatically.

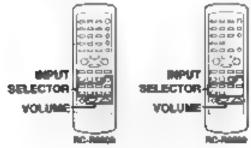
Dis the VP-40E/4149(IN-VS600D/V40SHD), press the SPEALER buy to sydich the specietrs on and off.

Familiag and the receiver

- Them can the power to the related economistis.
- Turn on the power to this receiver by presenting POWER (and GW) STANCEY) Implot.

Listening to a source component





Line the INPUT SELECTOR is solect the source you want to Nation in.

The legal sources change as shown before:

Selecting a source using the MPUT SELECTOR brok-

VR-4078CRF-V7030D

- IT 'PHONO'
 - O TUNIER
 - O 'CD/DVD'
 - [®] "TAPE" or "MD"
 - 1 10801°
 - "∀IOE02"
 - ② "WDEO3"
 - "domination"
- · (I' 'AT AUX'

V71-104/406/414/K/RF-V4006D/V-8668D/V-4636D

► ()- JAHONO, (AM-400AKAN-A8880ENARRESENARRESEN

CHANGE OVER-100/1240

- C: TLIMEP
- C CONDAD.
- ("TAPE" or "MD"
- G: "WIDEO1"
- (i) "Violitia"
- UP TOWORAST (VR-4007CRF-V00000A/S0000 will)

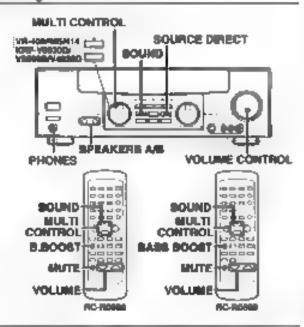
Etart physical from the salested source.

When the VOLUME CONTROL has (VOLUME bays) to adjust the volume.

Enlecting VINES 2/MONITON (assept for VII-487/KNF-V78300)

Departing on the component connected to the 19080 3MSHITOR jacks, aslect either the "19060 2" setting or the "1909/1707" setting, as appropriate.

Adjusting the sound



Adveting the teas

You can adjust the sound quality when the receiver is in the PCM stereo and analog stereo mode.

Press the SOUND key to select the term except to be adjusted.

BABS: Select this to actual the low trequency range.

(Press the SOUND key orce.)

TREB: Select this to adjust the high frequency range.

(Press the **SOUND** key fivior.)



Che the MULTI CONTROL to adjust the sound quality.

- The base and trable levels are adjustable from: 10 to +10 in 2 steptecommute.
- The adjustment form is displayed for approximately 8 encounts.

Onco-look few frequency constants (base beact)

You can adjust the sound quality when the receiver is in the PCM stance and ending starse mode.

Press the 61 BOOST (BASS BOOST) key.

- Prose the key once to select the meansure (+10) low insquarcy emphasis setting.
- This key does not function when this receiver it in the sound quality or ambience effects adjustment mode.

Surfaking book to the previous setting

Proce the SI BOOST (SASS BOOST) hely squide.

Multing the sound

The METTE key lets you muse the sound of the speakers.

Propo the MUTTE long.



Blimiu

To execut

Press the MUTE key again so that the "MUTE" indicator goes off.

Multing can also be canceled by adjusting the volume.

SOURCE DURECT playback (analog sources only)

Use this function to pass the source material direct to the amplifier, bypessing any audio processing.

Press the SOUNCE DIRECT boy.



 When you press the LIETEN MODE, SQUIND, or SET UP keys, or switch to another input source. SQUINCE DIRECT playshock will be canceled:

To cancer

Propo the SOUNCE DIRECT key again.

 If SOURCE particip payback was activated when using a number mode, canceling a resolvates the previous symbolic mode.

Liniouino with hondakense

(vri-ser/sec/strift-vrisability)
 Press the SPEARSHS A or B key so that the updater indicator sees off.

(VM-majer 4)(MF-Vangom/V46100) Prope the EPEA/CER boy no that the appather incleator good cill.

Make ture the SPEAKERS indicators on turned off.



VP-407/408/ IORE-V7030DAV6030D Make sure the SPEACER indicators are turned oil.



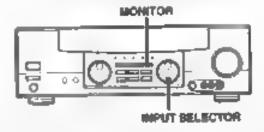
VR 405/414/ KRF V5030D/V4530D

- elf you turn off all of the speciam; when in the surround mode, the mode is cancelled as well, resulting in states playback.
- The speakers do not sweet off during the BCH INPUT mode Select the other input mode —GD
- @ Coronal headphones to the 7110HPS just.



@ May the VOLUME CONTROL (VOLUME) to select the values.

Recording audio (analog sources)



Recording a masic source

When recerding a music source, author the VIDEORNOHITOR setting to "BOJETOR" (VR-488408/414/KRF-V8038D/V83880/V45300 only). —(3):

- Use the HERLY BELECTOR levels to select the searce (other than "CAPE") you want to record.
- @ Set the causelle deck to record.
- Start playback, then start vacording.

Appending tapes or AID

When recording a mastic source, particle the VIDEO2/MONITOR setting to "MONITOR" (VR-400/408/474/CRF-V00/08/DVP0000/V4838O striy).

MONTOR - MOTAPE recording

Press the MONITOR Inc.



- Use the PEPUT SELECTOR trusb to value a nature other than "MD/TAPE."
- Start physicals on the custoffe deals converted to the MONTOR juste and other removiling on the custoffe deals operated to the MOTAPE Jacks.

MINTAPE -- SIGNITION recording

- @ Use the purUT SELECTOR back to select "MD/TAPE."
- Beart playment on the escapetic deck connected to the MOTAPE.
 Justics and exact recording on the cases to deck connected to the MOMITOR leaks.
 - To copy tapes using a double asserte discli, refer to the trestudion manual of the double asserte dock.

2000TOR Junction (analog sources only)

You can connect a cassistic deck or graphic equalizer to the VIDIOS securios (acts of the receiver if a graphic equalizer is connected, the SCOTTON key should be tell in the on position. Alternately, if a cassistic deck assupped with a 3-hand system is committed to the VIDIOS securios, you will be able to monitor the just-recorded eignes while making recordings on the cassistic deck. By switching the MONITON key on and oil, you can compare the sound of the source aigned and the just-recorded eigner. For more information, refer to the instruction manual oil the connected component.

Recording video

- Use the High IT SELECTOR to extent the video course (either then "VIDEO1") you want to record.
- Set the video duck contested to WOEC 1 to record.
- Salud the REC MODE to record a digital input source.

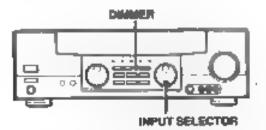
Shart playback, then start recording.

 With certain victor sufficient, recording they not be normal that to the ecopy guard condition.

Recording audio (digital sources)

Switch on the **REC MODE** to rectiful a digital input souths. Usually use the A-REC MODE to record winter could suppose When the digital mode changes during recording in the A-REC MODE, the audio story be interrupted mortelitarily. To recard the audio from the beginning of the digital movie change, use the M-MEC MODE With a model that is not compatible with DTS, no audio is reproduced over when the DTS warmb are hitself.

Recording music in A-REC MODE



- **Use the ROPUT SELECTOR** to select the source (CD, DVD, VIDEO2, or VIDEO3) you work to resent.
- Set the cascatte deck to record.
- & Prope and hold the DIMMER lay for more than I seconds to select the A-REC MODE.
 - The mode changes every 2 secunds as shown below.

Office Mode off:

The digital input record made is

evilated off.

SM-REC MODE:

The digital input eigenic (DTS, Dolley Digital, or PCNI) are identified automatically and converted

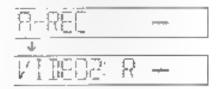
into storeo signals that are ready

for recording.

TM-NEC MODE:

The input signal type of the rec-spect this made to netected in held

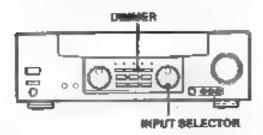
throughout this mode.



Start playback, then steel recording.

 If the audio reproduction stops in the middle due to charge in the input signals, etc., press the OfficeRR key.

Recording music to M-REC MODE



- Use the input selector to select the source (CD, DVD, VIDEOZ, or VIDEDS) you want to record.
- ill. See the consetts deck to rectird.
- Play the source to be recorded.
- Press and held the DMMER key for more than 2 eccords to select the M-REC MODE.

The reade changes every 2 seconds as shown below.

UREC MODE off:

The digital input record mode is

entiched off.

2:A-REC MODE:

The digital input signois (OTS, Dolby Digital or PCM) are identiflud automatically and converted heto stereo signals that are ready

for recording.

- (TM-MEC WOOE)

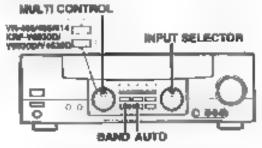
The input signal type of the moamost this mode is establish in hild Throughout this mode.

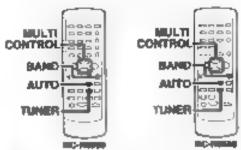


- B Play the course from the beginning and clark recording.
 - If the audio reproduction stops in the miscle due to change in the input signals, etc., presenths Officers R key.

The receives pain story up to 40 stanons in the reemony and recall them by one-touch operation.

Tuning radio stations





- Man the HIPLIT SELECTOR or TUBER key to select the
- Use the SAMO key to select the desired breedcast band.

Each proud awtiches the band as follows:

1,1990 2) AM

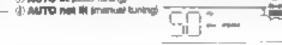


(Ine the AUTO key to select the desired inning method.

Each proce systems the tuning method on follows:

→ ⊕ AUTO III (suto turting)

"AUTO" indicator lights.



- Normaly, sel to "AUTO" (suit turing). If the radio waves are week. and there at a lot of exteriorance, switch to manual runing, (With market luning, stoned broadcasts will be received in monaural).
- D time the MULT? CONTROL to select the station.



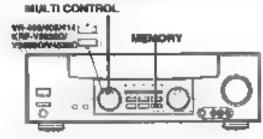
"TUNKED" is displayed. when a station is received

Auto-harding : The most station is tuned automatically

Manual turking : Turn the knob (press the key) to select the

rodete berieub

Presetting radio stations manually



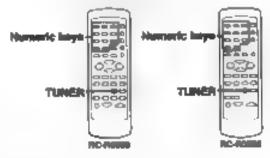
- Fune is the station you want to stary.
- Fig. Proce the ANENGAY key while receiving the station.



Proposed to step @ within 5 assemble. (If more than 5 seconds alapse, green the MEMORY key ago

- Man the MILILTY CONTINUE, to polact one of the station presets (1 - 48).
- Proper the MEMBAY key to secont the setting.
 - Reposit associal. III. III. and III to store as many stations on necessary.
 - if you giore a station at a previously used present, the old station will be replaced by the new one.

Receiving preset stations



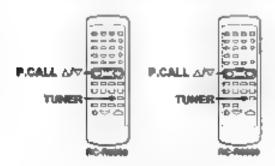
- Proce TUNER to agreet the famir as the source.
- [4] Estar the combot of the proof you wont to receive (up to W.

Press the manario have to the tellowing enter:

 If you make a matter entering a two digit number, green the +18 key several terms to return to the original display and start again.



Receiving preset stations in order (F.CALL)



- Press TURES to select the baser as the source.
- Use the P.CALL key to select the desired station.
 - Each time you press the key, another presst station is received in order

Prending the P.CALL (V) tay does the following: Q1+82+82+...... 38+38+48+Q1+82+82+

Holding down the key, lete you slip through the precels, receiving such for 0.5 concerns uplace.

- 5i

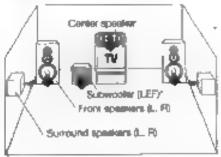
This receiver is equipped with Helening modes that ellow you to enjoy on enhanced sonic ambience with a variety of video sources.

in order to obtain the optimum effect from the surround modes, make earn to input the proper special settings beforehand.

Surround modes

01'S (VR-407/KRF-470300 anly)

The DTS must-channel aucho format is available on CD, tiD and OVO achivers. DTS at a strictly digital format and can not be decoded listed most CD, tiD or DMD players. For this respon, if you attempt to inten to DTS ancoded notivere through the enging output of your new CD is D or DMD player, you will experience digital noise in most cases. The noise can be quite loud if the shared output is connected directly to a high cower amplification repeating proper measures for playing the digital curput as described below should be taken to swood this struction. To enjoy DTS Digital Surround decoder system or an empiritar with a built-in DTS Digital Surround decoder must be commented to the digital output (\$4P DEF, AES/EBU or Fostink) of a CD, LD at DVD player.



* Optional in this mode.

*LFE - Low Frequency Effects. This channel delivers separate nondirectional basis signals to the subwester for more dynamic deepbase count effects.

DTS has a .1 or UFE charvest.

The indication "LPE" appears in the deploy when a signal is being input for this channel.

Manufactured under learner from Dolby Laboratores. "Dolby". "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. @1992-1997. Dolby Laboratories. All rights reserved.

Manufactured under Teanes from Digital Theater Systems, Inc. US Pal. No. 5.451,942 and other workwide parents makes and pending

"DTS" and "DTS Digital Surround" are trademarks of Digital Therier Systems, Inc.

© 1996 Digital Theater Systems, Inc. All rights re-

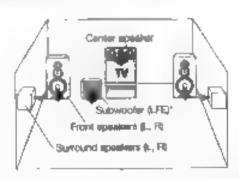


Bolby Blottel (AC-3)

The Dolby (higher IAC-3) surround former lies you enjoy up to 5.1 chemises of digital extraund sound from Dolby Digital (AC-3) program sources (such as Leserciec or DVD software marked (III) (III). Compared with previous Dolby surround, Dolby Digital (AC-3) provides even bener sound quarity, greater spanial accuracy, and improved dynamic range.

Note

Agricuph a full net of spenium (front left, right, and center, surround left and right, and a subwooter) is maximisation true 5.1 channel Doby Digital (AG-3) surround sound, this receiver lets you enjoy Dolby Digital (AG-3) (and Doby Surround) program sources, even if you connect only the front speciess. ("Species placement")



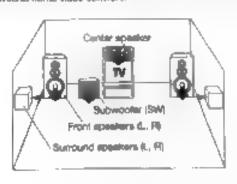
* LIFE = Low Prequency Effects. This channel delivers separate hopdirectional basis signeds to the subwacdar for more dynamic deep their lound effects.

Attricular only Dolby Digital (AC-3) soundiracks incorporate a separate low frequency channel, consecting a subwooter will also improve deep basis performance in the other surround modes.

The indication "LPIE" appears in the display when a signal is being input for this channel.

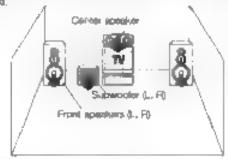
Boller Pro Logic

Dailby Pro Logic is a specially uncoded 2 channel surround format classigned to provide theater-like surround sound from Dailby Surround encoded sources (such as video and Lastroleo software marked **DECEMPROPER**) This receiver is equipped with a Dolby Pro Logic surround discoder to let you argue the wide variety of currently available. Dolby Surround home video software.



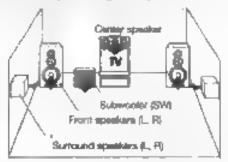
Dollar 3 Stores

Oolby 3 Shared as available for systems that do not have surround appellers. When in the Dolby 3 Stereo mode, the surround information to radirected to the front left and right speakers. The mode is designed for use with Dolby Surround program sources, but can also improve sound field unity for originants that are not Dolby Surround encoded. Distop positioning and sound image definition, however, may not be as accurate when used with programs that are not Dolby Surround encoded.



DVD 5-chancel made

Uting a DVO player or the Ne equipped with an (5.1) output channels and the receiver, you can enjoy multi-channel encoded DVO source material in all its splendor. Since the source signals are digital and auch channel is report independently, the mainting sound quality, sense of spacoueness, and dynamic range are superb.



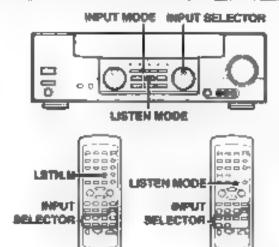
* UPE = Low Frequency Effects, This channel delivers expenses non-directional base signeds to the subsecution for more dynamic deep base sound affects.

The indication "LPE" apparers in the deploy when a signal is being input for this channel.

Surround Play

The DTS compabble models can reproduce a CD, DVD, or LD carrying the DTS mark. (VR-407 and WR+V70300 only)

DOLDY DIGITAL can be used when playing CVD or LD software bearing the CVGCP mark and DOLBY DIGITAL (AC 3) format digital proadcases (etc.). DOLBY PRO LOGIC and DOLBY 3 STERFO can be used when playing video, DVD; or LD software bearing the CVGCP mark.



Proporations

- *Turn ON related components.
- Complete "Preparing for autround sound" (speaker astlings). (16)
- Use the MPLIT SELECTOR to swisc the component you wish to pay back with survived sound.
- Use the BIPUT MODE key to select the injust mode (employ or cligital) for the source you wigh to play back,
- Note will be produced when a DTS source is played by selecting the analog input.
- Elect playing the video software.

Press the LERTEN MODE (LSTM.M) key to select the flatoning mode.

The fistering mode settings are stored separately for each input. If the input mode is set to digital auto ("AUTO 1004HO" tights), the receiver selects the optimal fetering mode automatically based on the type of input signal and the speaker settings.

Each press of the LATEN MODE (LETRIN) key awitches the willing as Heled below.

The Hatening mode settings are different departding on the type of input signal.

When the DOLEY DIGITAL along to input:

(The DOLBY DIGITAL, PROLOGIC, or 3 STEPEO indicator lights up.).

- URDLBY DIGITAL: DOLBY DIGITAL gurgoing
 - ®PRO LOGIC: PRO LOGIC aurround
 - 33 STERED: 3-STEREO aurround
 - (00TEREO: Normal stereo playback

When you select DOLEY DISAITAL

00	4		Try D (H	-
----	---	--	------------	---	---

When the DTS signal is impat (VR-467/RRF-V78300 only) (The CTS indicator lights up)

e- digre; OTS surround

- - DETERBO: Normal stereo playback

When the paying signal or the digital signal except for the DOLBY DIGITAL or DTS signal is layer;

 PRO LOGIC: PRO LOGIC autround (The PRO LOGIC indicator lights up)

ES STEREO: 3-STEREO surround (The 3 81 EREO indiction lights up.)

TETEREO: Normal storeo playback

 If a Colby Digital eights having more channels men the maximum number of playback channels available using the receiver's current settings is about, the DOWN With indicator on the front penel lights up and downtready is performed to match the number of available channels.

El Adjust the returns.

None

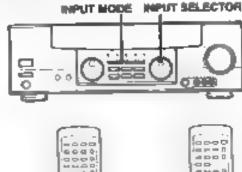
- Departing on the type of the signator speaker setting, some issuring modes cannot be selected
- When playback is started, the sound may be sail or interrupted before the input source is conformed as Doday Digital
- To enjoy Doilty Digital (AC-3) surround tax well as at the other instanting modest from a single component, be sure to use a Doilty Digital IAC-3) compatible source component. Connect the Doilty Digital IAC-31 compatible source component's Dutry Digital (AC-3) formet digital sude signal to one of the pacifical connects to the receiver. Connect the normal sude signal correctly to the respective component's ALICO picks.

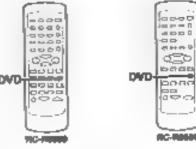
DVD 6-channel playback (vn-eer/ees/knf-y76366/ yeasen/v56300/v65300 enit)

theing a DVD player or me this equipped with this (6.1) output charmele and the receiver, you can enjoy surround sound playback.

When you by to play a discrether than Doiby Digital (AC-3) such as DTS CD, no sound is produced or, notion may be heard. Fo evold this ellusion, make sure that you connect the component to the receiver's DVD 6CH. INPUT (acks through a surround processor which can decode the surround aighet you wont to taken to

Connecting a DMO player which can decode the surround signal itself is also acceptable.





Properties

- Correct your DVD player to the DVD 6ch jacks of the receiver
- . Turn on all other components that will be used.
- Complete "Preparing for surmund sound".

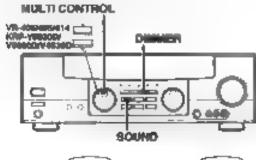
-(36)

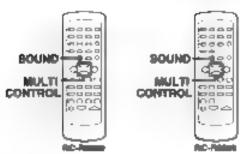
Spiest "D9D/Ock" as the laget source.

- If symmetry system B is an when "DVD/Bcfr" is selected as the input source, it switches off and speaker system A sums an automatically.
- \$ Select TSCH PAPT" by prevelop the MAPUT MODE key.
- 🖪 Start playbook of the DVD sydbooks.
- E Adjust the volume.
 - It is not possible individually to adjust the wolumb level or sound duality (BEY LIP, SOURCE of the superate channels when the receiver is in the DVD 6ch mode. Adjust the volume with the controls of the DVD player.

For the powered subwooter, you can adjust the volume of the subwooter sign the subwooter's own volume control.

Convenient functions





Adjusting the second

You can make further adjustments to the sound while listening to playback the surround mode.

Proce the SOUND her to select the item you want to adjust.

East press switches the estection as listed below. Note that some three are not displayed in certain modes.

- (DBASE flow frequency range sound quality adjustment):
- -132 2/TREE (high frequency range sound quality adjustment) 4 III
- DiCoh regreer appealuer level adjustment)
- *DPS (mg/h) surround speaker level adjustine(f).
- EXAMPLIANT AUTOMOST APPROPRIATE ACCUMENTATION (
- (Intermeulips level reformative) WRF(ii)
- ZIMPUT (right level adjustment)
- flows abore intention THEREST.

-011

Use the MULTI CONTROL to adjust the setting as desired.

The adjustment item is displayed for approximately 8 seconds.

Midnight mode (Outby Digital (AC-3) made only)

When watching moview at night you might not be able to raise the volume as loud as normal. Midright mode compresses the dynamic range of privileusly specified parts of the Delby Digital (AC-3) sound track this receives with sudden increases in volume) to minimize the difference in volums between the specified and non-specified parts. This makes it easy. to hear all of the sound track, even when listening at low volumes.

Proon the SOUND key several times writt "NiGNT" in displayer.

 This can be selected only # CD/DVO, VIDEO2 or VIDEO3 is estected. sa the source and the finer mode is not to "DOLEY DIGITAL."

Use the MULT: COSTROL to estent the on or off meting.

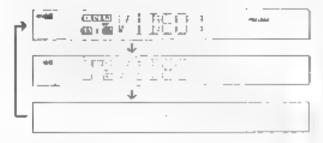


- The adjustment nem is displayed for approximately 6 seconds.
- Some Distry Digital (AC-3) software may not be compatible with the Midright mode.

Display dimmer adjustment

The dimmer furiction lots you select the brightness of the receiver's display. You might find this useful if you deriven your room to writch movies. or listen to music.

Each three you prote the DMMER key, the display brightness. changes enlang the three evaluable settings. Select the brightness level you find most pleasing.



Sükfür LPCM ptoydomic

The receiver to competible with the Sticitz LPCM playback. To play a 95kHz DVD, set the laten mode to "STEREO."

 When "96ki-k" appears in the display, press the LISTEN 440DE key. Ithe fater made charges to the STEREO model.

Resetting the Microcomputer

If the microcomputer may maillanction (unit permat be operated, or shows an erronmous display) if the power cord is unphagged while the person in CH, or due to come after enterrupt factor. If this happens, existable the following procedure to resol the microcomputer and releast the unit to be permat operating condition.

 Please note that residing the recroscomplays will pleas the contents of the memory and returns the unit to the state it was in when it will the feature.

For U.S.A. and Canada

Unplug the power cord from the well outlet, then plug it back in while holding down the POWER lary.

For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding sown the ON/STANDBY key, press POWER.

Acresidies

kmg (Ahor		
No sound from the speakers.	The speaker cords are disconnected. *VOLUME is set to the minimum position. *MUTE in ON.	Connect them properly referring to "Connecting the appealment" Adjust the volume to a proper level. Turn OFF the MUTE.
	• The SPEAKERS switches are set to OFF.	San the SPEAKERS swetch(es) to ON -200
The standay indicator blints and scend in not output.	* Speaker cords are short-carsuland.	• Turn the power cff, elements the short circulting, then burn on the power sguin. —(.8).
Quarties and output from one of the speakers.	+ The appealable conduct disconnected	Connect it properly returning to "Connecting Its speakers"
Sound is not output from the surround openium and for the center speaker, or their pages is very assail.	The surround speaker cords and/or the center speaker cord is decorrected. A surround made has not been engaged. The surround and/or center volume controls are set to the membrain level.	Connects properly retenting to "Convecting the specials". Select a surround mode Adjust the special levels using the test tone. —U(i)
A Immeding riples is generated when the PHONO input estactor is determed.	The sudio cord from the turnishie is not connected to the PHONO Jacks. The turnishie is not grounded.	 Impet the audio cord plugs ascurely into the PHONO jecks. Commet the grounding who to the GND termi- nal on the rear panel.
When playing a Delay Digital (AC-2) source algost using a DVD player, the sessed is sub- eff soon after II eterts.	 There are many possible cause for this prob- lism, depending on the type of DVD player used. 	Set the input mode to digital manual before maring playback of the Deby Digital accuration. →□□□
No second is produced during phyliatric from a QVD player.	The input mode is set to digital manual.	Press the INPUT MODE key to extent to digital auto mode.
A video source cannot be recorded normally.	* The software is copy-guarded.	+ Copy-guerded video collivery current be re- conduct.
He audio is produced when a CTS searce is played, (accept for VII-467 and KHS-V7938D)	» The model does not encorporate a DTS decoder.	 CTS sources cannot be reproduced with a model that does not incorporate a DTS decoder.

Tomar

Sadie sintions perviot to received.	 two anieryna is connected The broadcast band is not sail properly. The fragulancy of the desired station is not turned 	Covered an america Set the broadcast band properly. Tune the frequency of the desired elabor. -GE
haarferense.	Nome due to gration roles from an automobile. Nome due to inhartenance from an electric appliance. Nome due to a rearby TV ser.	Install the outdoor anteres sway from the road. Turn off the power to the appliance. Install the receiver further every from the TV.
A station which was press current be re- unived by preeding the corresponding ru- meric trey.	The preset statum belongs to a frequency that cannot be received. The preset marrory was cleared because the power cord had been unplugged for a long period of limb.	Preset a station with a receivable frequency. Preset the station egain.

Rated power output during STEREO operation

100 watts per observed intrinsies Philis, both observate differen, at 8 G from 26 Hz (V79-607), 48-tz (V79-408) to 20 kHz (V79-408) then 0.7% both harmonic distortion. (FTC)

Effective power output during SUPROUND operation	
FRONT (20-20046/VR-407, 40-20046/VR-406, 0.7% T.H.D. at 6.1	a
one channel driven)	ŕ
CENTER (20-204)62/VR-407, 40-2044(20/R-406, 0.7% T.H.D. et	
# LI time channel driven)	
BURROUND (20-20kHe/VR-407, 40-20kHe/VR-408, 0.7% T.HLD	
et # 0 one charmet driven)	ř
Total harmonic distortion	ŀ
Proquency response	
CD	ı
Eignal to noise ratio (IHF-01)	
PHONO (BBI)	ř
CD 91 di	à.

Elgral to noise ratio (BEF 66)
PHONO (MM)
CD91 dB
Ingel conditivity / Impedance
PHONO (MM)
CD 300 mV / 47 till
MONITOR RI (VR-106: VIDEOSRIDIETOR) 200 mV / 47 kg
Output terril / Impedente
TAPE 9EC
MONITOR OUT (VR-406: VEXEQUADOR/TOR) 300 mY / 1 kg:

AUDIO systim (VR-495/414)

Tors pentral GASS

Rated power output during STEREO operation

PRE OUT (SUBWOOFER).....

86 wasts (VR-405), FOurtes (VR-414) per obtained infiniteers RBSS, both classrate driven, at 8 D from 48 Hz to 20 lide with no more than 6.7% total furments distortion. (FTC)

Effective power output during SUMMOUND operation
PRONT (48-2004), 0.7% T.H.D. at 8 D one channel driven
CHATTER (40-2004), 0.7% T.H.D. at 8 O one change driven)
86 W (VIS-408), 50 W (VIS-414)
SUMPOUND (49-2004): 8.7% T.H.D. at 6 G one channel
drivers
Total harmonic distortion B.050% (1 title, 400f, 0 Ch
Proquency response
CD
Signal to noise retio (NGPSE)

London 1973, Cambridge
CO 10 Hz - 53 MHz, +0 dB, -3.0 dB
Signal to noise retio (NOT'98)
CO
Injut sensitivity / impedance
CD
MONITOR IN (VIDEOSRICHITOR)
Output level / Impedance
TAPE HEC
MONITOR OUT (VIDEOM/MONITOR)
PRE OUT (BUBWOOFER)
Tone control

DISITAL AUDIO section

CORPORATE PROPERTY AND ADMINISTRA	
Sampling traquency apartments 32 lefts.	14,1 16tz, 40 MHz, 90MHz
Imput level / Impedance / wave langth	
Ориса) -пинатичников (-98 и л ек — -2	
Couriel	0.5 ¥p-ф / 76 Ω
VIDEO section	

VIDEO Inputs / sutputs	
VIDED (composite)	1 Vp-p / 78 ii
8 VIDEO (VIII-407 doly)	
(Puritirativas signisis)	
(chreminance signal)	0.306 Vp-p / 75 D
FMf tener section	
Turking frequency range	07.4 WHz - 100 MHz
Usable sensitivity (NONO)	
	Mx OEV., SMAD 30 40)
89dB quieting senethrity	
STEREO	91.8 µV (78 QV 41.2 #81.
Total harmonia distortion (1 kHz)	
MONO	U.O'S. (Bill dill' Imput)
STEREO	0.7% (00 d00 input)
Olgani to noise ratio (1 lett, 75 lett GEV.)	
MOHO	
STEREO	
Stores separation (1 (th)	
Spinotivity (a 400 ki)(g)	
Prequency response	Marin 4070 cm 1 - 219 cm
All inner section	

Tuning fraquency range
10 kHz step manufamunianimininininini \$30 kHz - 1,700 kHz
Unable sensitivity (20% mod., 574 20 dB) 16 pV / (696 pVilin)
Signal in noise ratio (30% med. 1 mV input)

GENERAL

.27/22to

POWER COMMUNICATION (PRINCIPLE COMMUNICATION	-
(VP-460)	84 A
THE SHAPE PROPERTY OF THE PROP	au p
AC outlet.	
9WTGHED	(100 p
Dimensions	MG")
14 : 140 mm (6-	
D : 400 mm (16-	
Weight (Rist)	# (b)



BAAS.

..... ±16 dB (at 100 Hz) ±16 dB (at 10 M/s)

^{1.} RENWOOD follows a policy of continuous advancements in development. For this resear specifications may be changed without nobice.

^{2.} The full performance may not be exhibited in an extramely cold location (under a weter-freezing temperature)

- 4	L B.	-	ъ.	-	-
- 4	м				

1. XENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

The full performance may not im setricised in an extremely cold location (under a water-freazing temperature).

KENWOOD

For your recerbs

Record the seriel number, found on the back of the unit, in the special designated on the werranty card, and in the spece provided below. Refer to the model and serial numbers whenever you call upon your design for information or service on this product.

Model	Sprint Number	
THE RESERVE AND ADDRESS OF THE PARTY OF THE		

VR-407/VR-406/VR-405/VR-414

KRF-V7030D/KRF-V6030D/KRF-V5030D Correct

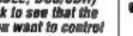
Wrong

ote control units (RC-RO609)

Step 3

s the source POWER (TV. DVD. CABLE, DSS/CDR) to select the input you regis-





unit (VR-405/VR-414/KRF-V5030D)

forms on.

Remote control units RC-RO509)

Power key (DVD)

Jsed to operate DVD player. for details, refer to the instruction. Manual of your DVD player.

P7 Remote control units (RC-R0509)

Step J

P3 3

Press the source POWER (TV.

VCR. DVD. CABLE, DS8/CDR)

key for more than 2 seconds to

select the input you registered.

Press the source POWER /TV.

VCR. DVD. CABLE, DSS/CDR)

key for more than 2 seconds.

component you want to control

and check to see that the

Power key (DVD)

Used to operate DVD player. For details, refer to the instruction manual of your DVD player.(Press the DVD key for more than 2 sec-Cabno.

P24 (addition)

 (VR-405/414/kRF-V5030D only) When you press the POWER (DVD) key and the DVD player does not lum on, prees the 1 or 2 key during pressing the POWER (DVD) key.

Erroné Télécommende (RC-RO800)

Etape 3

Appuvez sur la touches POWER de source (TV, VCR, DVD, CABLE, DSS/CDR) pour sélectionner l'entrés que vous avez enregistrée.

P3 3

Aspuvez sur le louches POWER de seurce (TV, VCR, DVD, CABLE, DSS/CDR), puls vérifiez que l'apparell que veus désirer controlor s'alleme.



Etape 3

Appuyez sur la touches POWER de source (TV, VCR, DVD, CABLE, DS8/CDR) pendent plus de 2 secondes pour sélectionner l'entrée que vous avez enragistrée.

P3 E

Aspayaz sur la tauches POWER se seurce (TV, VCR, DVD, CABLE, DSS/CDA) pendent plus de 2 secondes, país vérifiez que l'appareil que vous désires cantrillar s'alluma.

Appereil principel (VR-405/VR-414/KRF-V5030D)

P7 Télécommende (RC-R0509)

Touche Power (DVD)

Permet d'utiliser un lecteur DVD. Pour plus de détails, reportez-vous au mode d'amploi de votre lecteur DVD

P7 Télécommende (RC-R0509)

Touche Power (DVD)

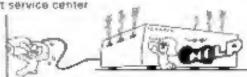
Permet d'utiliser un lecteur DVD. Pour plus de détails, reportez-vous. au mode d'emploi de votre lecteur DVD. (Appuvez sur la touche DVD pendent plus de 2 secondes.)

P24 (addition)

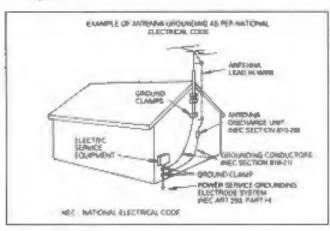
*!VR-405/414/KRF-V6030D uniquement)

Si le lecteur DVD ne se met pas sous tension foreque your appuyez sur la touche POWER (DVD), appuyez sur le touche 1 ou 2 tout en maintenant la loughe POWER (DVD) enfoncée.

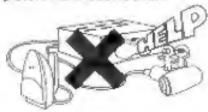
- 13. Lightning For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the well outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- 14. Absormet smell If an absormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.



- 15.Demage requiring service The appliance should be serviced by qualified service personnel when
 - A. The power-supply cord or the plug has been damaged.
 - Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water
 - D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result indamage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
 - E. The appliance has been dropped, or the enclosure damaged.
 - F. The appliance authibits a marked change in performance
- 16.Servicing The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- 17. Outdoor antenne grounding If an outside antenne is connected to the appliance, be sure the antenne system is grounded so as to provide some projection egainst voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/NEPA 70, provides information with respect to proper grounding of the mest and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection El grounding electrodes, and requirements for the grounding electrode. See Figure.



- 18. Power lines An outside entenne system should not be located in the woinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenns system, extreme care should be taken to leap from touching such power lines or circuits as contact with them most be fatal.
- 19.AC outlets Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or loaster, to it to prevent fire or electric shock.



- Overleading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- Attachment Do not use attachments not recommended by the apphence manufacturer as they may cause hazards.
- 22. Replacement perts When replacement perts are required, be sure the service technician has used replacement perts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23. Safety sheek Upon completion of any service or repers to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

Notes:

- Item 3 is not required except for grounded or polarized equipment.
- item fill and 18 are not required except for units provided with antenna terminals.
- 3. from 17 complex with UL in the U.S.A.

Please read all of the selety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- Pewer sources The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
- Pewer-cord pretection Power-supply cords should be routed so that they are not likely to be walked on of pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



- 3. CAUTION Polarization This appliance may be equipped with a polarized alternating-current line plug to glug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to lit, contact your electrician to replace your obsolete outlet. Do not defeat the safetry purpose of the polarized plug.
- 4. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overfleating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.

Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



Water and melature – The appliance should not be used near water - for example, near a bathtub, washbowt, kitchen sink, laundry tub, in a wet basement, or near a swamming pool, etc.

- Temperature The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal embient temperature is above +5°C (41°F).
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat
- a. Electric shock Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



Enciosure removal - Never remove the enclosure.
 If the internal parts are roughed accidentally, a serious electric shock might occur.



- 78.Magnetic fields Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- 11.Cleaning Unplug this appliance from the wall outlet before cleaning. Do not use votatile solvents such as alcohol, point thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- 12. Assesseries Do not place this appliance on an unstable cart, stand, inpod, bracket, or table. The appliance may fell, causing serious injury to a child or adult, and serious demage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overture.

